

**What is claimed is:**

1. A crankshaft coupling structure comprising:

a piston reciprocating in a cylinder inside an engine, said piston having an oblong coupling hole and a sloping face spaced above said oblong  
5 coupling hole;

a connecting rod, said connecting rod having a top end coupled to the oblong coupling hole of said piston and a bottom end pivoted to a crankshaft; and

10 a slide coupled to the sloping face of said piston and movable along said sloping face between bottom and top sides of said sloping face, said slide having at least one bottom lug respectively pivoted to the top end of said connecting rod above said oblong coupling hole.

2. The crankshaft coupling structure as claimed in claim 1, further comprising a roller assembly provided between said slide and the sloping face  
15 of said piston and adapted to smoothen movement of said slide along said sloping face.